

Foundation Fieldbus Cables

These Cables are meant for bi-directional communications protocol used for communications among field devices and to the control system. Installed in many process applications such as refining, petrochemicals, power generation, even in food & beverage, pharmaceuticals and nuclear applications.

Construction

Voltage Grade	: 300 V / 600 V
Conductor	: Plain/Tinned Annealed Copper (up to 120° C) Silver Plated Annealed Copper (up to 200° C) Nickel Plated Annealed Copper (up to 260° C)
Range	: 22 AWG / 18 AWG / 16 AWG / 14 AWG
Insulation	: Solid Polyethylene/ XLPE / PFA for temp. > 150° C
Screening	: Individual and/or overall with following options - - Aluminum Mylar/Copper Tape with Tinned Copper Drain Wire or - Braided with Bare or Tinned or Nickel Plated or Silver Plated Copper
Inner Sheath	: PVC/HR PVC/FR PVC/FRLS PVC/ZHFR/LSF/FEP/PFA
Armouring	: Round Galvanized Steel Wire / Flat Strip / Steel Wire Braid
Outer Sheath	: PVC/HR PVC/FR PVC/FRLS PVC/ZHFR/LSF/FEP/PFA with Plain Orange Jacket or with strip for easy identification and Blue jacket available for Intrinsically Safe applications
Standards	: Cable specification Foundation Fieldbus FF-844 H1, Cable design based on EN 50288-7/BS-5308 Part 1, IEC 60332 Electrical properties: FF-844 H1 and IEC 61158-2, Type A
Our FF Cable Features	: Excellent Electrical Characteristics Low Capacitance (for long runs) RoHs compliant and CE marked

Technical Data

Cable Type →		Trunk	Spur
Conductor Resistance @ 20° C Ohms/Km	Minimum Conductor Size Sq mm	18 AWG	22 AWG
	Maximum Resistance	23.5	59.4
Capacitance nf/Km	Between Conductors	Less Than 150 nf/Km	
	Between Conductors & Screen	Less Than 400 nf/Km	
Inductance mH/Km		Less than 1.0	
Insulation Resistance @20° C MOhm-Km		More Than 5000	
Characteristic impedance		100 Ω ± 20%	
Wave Attenuation @ 39 KHz:		< 3 dB/km	
Capacitive unbalance to shield		≤ 4 nF/km	
Temperature range		-30° C to + 90° C	